

## Matlab Programming With Applications For Engineers

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MATLAB does include standard for and while loops, but (as in other similar applications such as R), using the vectorized notation is encouraged and is often faster to execute. The following code, excerpted from the function magic.m , creates a magic square M for odd values of n (MATLAB function meshgrid is used here to generate square matrices I and J containing 1:n ):

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MATLAB language have its characteristics and features, it is a high-level programming language that is used to create applications performs various calculations like numerical integration, it ' s a complex calculator gives you the power of executing different functions like creating a graphical user interface, develop vectors work with scalar and non-scalar data. Data type and structures are ...

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Applications of MATLAB. Ordinary Di fferential Equations (ODE) David Houcque Robert R. McCormick School of Engineering and Applied Science - Northwestern University 2145 Sheridan Road Evanston, IL 60208-3102 Abstract Textbooks on di fferential equations often give the impression that most di fferential equations can be solved in closed form, but experience does not bear this out. It remains ...

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4. New Programming Platforms. Not only has C given birth to C++, a programming language including all the features of C in addition to the concept of object-oriented programming but, various other programming languages that are extensively used in today ' s world like MATLAB and Mathematica. It facilitates the faster computation of programs.

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